BRUHAT BANGALORE MAHANAGARA PALIKE SWD R.R NAGAR DIVISION

Detailed Estimate

Rates as per SR 2018-19 of PW,P and IWTD, Bangalore Circle

Name of Work : Construction of U shape Drain to SWD H-205 Beside St Clarence School in ward no.16, of RR nagar Zone

Slno	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
1	Dismantling of Existing Structures like Culverts,Bridges,Retaining Walls and other structures comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding where ever necessary,sorting the dismantled material,disposal of unserviceable material and stacking the seviceable material with all lifts complete as per specifications. by Mechanical means prestressed/ reinforced cement concrete grade M15 & M20.								
	PWD - SR, 2018-19 : Page No.139, Item No. 18.20								
	Basic Rate:						= 390.00	390.00	
	Add area weight age 6% as per PWD- SR Note							23.40	
	Coping on top of		2	18.00	0.60	0.10	2.16		
		Cum					2.16	413.40	892.94
2	**Dismantling of Existing Structures** like Culverts,Bridges,Retaining Walls and other structures comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding where ever necessary,sorting the dismantled material,disposal of unserviceable material and stacking the seviceable material with all lifts complete as per specifications.**Rubble stone masonry in cement mortar**								
	PWD - SR, 2018-19 : Page No.140, Item No.18.27								
	Basic Rate:							351.00	
	Add area weight age 6% as per PWD- SR Note = 21.06							21.06	
	SSM Side Wall		2	18.00	0.60	1.50	32.40		
		Cum					32.4	372.06	12054.74
3	Diversion of Water course by providing coffer dams or bunds or islands as may be necessary for piers and abutments, foundations, bailing out or pumping water during exavation and until completion etc., complete 1.5m depth below LWL								
	PWD - SR, 2018-19 : Page No.269, Item No. 37.41.1								
	Basic Rate:							296.00	
	Add area weight age 8% as per PWD- SR Note = 23.68							23.68	
			1	18.00	0.9	1.2	19.44		
		Cum					19.44	319.68	6214.58
4	Earth work in Excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 V. in Marshy soil upto 3m depth By mechanical means								
	PWD - SR, 2018-19 : Page No.221, Item No. 27.13								
	Basic Rate:							145.00	
	Add area weight age 8% as per PWD- SR Note							11.60	
			1	18.00	4.0	0.75	54.00		
		Cum					54.00	156.60	8456.40
5	Earth work in Excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 B. in **Ordinary soil upto 3m depth By mechanical means**								
	PWD - SR, 2018-19 : Page No.220, Item No. 27.4								
	Basic Rate:							50.00	
	Add area weight age 8% as per PWD- SR Note							4.00	
			1	18.00	5.00	1.20	108.00		
		Cum					108.00	54.00	5832.00

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
6	Providing and Filling in foundation with granite trap broken metal with available boulders,and providing with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications specification. No. KBS as above considered 50% of rubble stone masonary dismantled qty are used as available boulders for filling								
	As per Data Rate Approved By CE SWD								
	Basic Rate: =1441.38							1441.38	
	Add area weight age 6% as per PWD- SR Note							86.48	
		Cum	50% of Item No 2				16.20	1527.86	24751.38
7	Providing and filling in foundation with granite/trap broken metal of 100 MM and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge								
	PWD - SR, 2018-19 : Page No.7, Item No. 2.15								
	Basic Rate: = 2429.00							2429.00	
	Add area weight age 6% as per PWD- SR Note							145.74	
			1	18.00	4.00	0.30	21.60		
	Deduct for available boulders						16.20		
		Cum					5.40	2574.74	13903.60
8	Plain Cement Concrete M15 with OPC cement @ 240 kgs. with 40mm and down size graded granite metal coarse aggregates @0.84 cum and fine aggregates @ 0.56cum, in open foundation complete as per Drawing and Technical Specification MORTH Specification No.1500, 1700 & 2100								
	PWD - SR, 2018-19: Page No.222, Item No. 27.24								
	Basic Rate:							5103.00	
	Add area weight age 8% as per PWD- SR Note							408.24	
	U'Shape Drain		1	18.00	4.00	0.15	10.80		
		Cum					10.8	5511.24	59521.39
9	Plain/reinforcement Cement Concrete design mix M25 with OPC cement @340 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @0.47cum with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, open foundation complete as per Drawing and Technical Specification with Batching plant, transit mixer and concrete pump. MORTH Specification No. 1500, 1700 & 2100								
	PWD - SR, 2018-19 : Page No.223, Item No. 27.31								
	Basic Rate:							4995.00	
	Add area weight age 8% as per PWD- SR Note							399.60	
	Raft		1	18.00	3.70	0.40	26.64		
		Cum					26.64	5394.60	143712.14
10	Plain/reinforcement Cement Concrete design mix M25 sub structure with OPC cement @340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @0.47cum with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 height upto 5 mtrs								
	PWD - SR, 2018-19 : Page No.227, Item No. 28.7.12								
	Basic Rate:							5321.00	
	Add area weight age 8% as per PWD- SR Note							425.68	
	Box Drain Wall 1200-1750.00		2	18.00	0.35	2.00	25.20		
	Parapet wall		2	3.00	0.15	1.20	1.08		
	Haunch		2	18.00	0.5X0.15	0.15	0.12	0.405	
		Cum			Total		26.40	5746.68	151720.97

26.68 153321.42

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No	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and technical specifications complete as per specifications MORTH specification No 1600 & 2200								
	PWD - SR, 2018-19 : Page No.229, Item No. 28.8.2								
	Basic Rate:		**=68233.00**					68233.00	
11	**Add area weight age 8% as per PWD- SR Note**							5458.64	
	For raft 100kg/cum		26.64	0.10			2.66		
	For walls & Cover 100 kg/cum		26.40	0.100			2.64		
		MT					5.30	73691.64	390871.51
									390565.69
12	Providing Weep Holes in Brick Masonry / Plain / reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of 1V-20H towards drawing foce. Complete as per drawing and technical specifications complete as per the specification and direction of the Engineer incharge								
	PWD - SR, 2018-19 : Page No.229, Item No. 28.10							147.00	
	Basic Rate:							11.76	
	Add area weight age 8% as per PWD- SR Note						22	158.76	3492.72
	For walls	**No.**							
13	KSRRB M 100-1 Loading and unloading of earth, placing tipper at loading point, loading with front end loader, dumping, turning for return trip, including cost of Hauling and return trip complete as per specifications. Morth chapter-1. Carriage of excess earth from work spot to outer skert of the city. Collecting, Conveying and disposal of surplus/excavated earth to designated dumping site (15.0 kms) as directed by the engineer-in-charge (~~68.00+15X2.5=68.00+37.5=105.50~~) (57.00+15x2.00+1.28 = 57+38.40=95.40								
	PWD - SR, 2018-19 : Page No.136, Item No. 17.1, 17.4							95.40	
	Basic Rate: 57+(2*1.28*15) = 95.40							7.63	
	Add area weight age 8% as per PWD- SR Note 7.63 103.03						162.00		
	Excavated surplus earth qty vide item	**Cum**					575.00	103.03	59243.40
								SubTotal	880,667.78
14	**Works contract GST 12% as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF 2017,Dated 11-10-2018**								~~105,680.13~~ 105835.49
17	**Shifting of utility services, electric poles,Transformers, water supply line, UGD Lines and Conducting Survey work etc,.**								~~12202.10~~ 13,652.09
								Grand Total Rs	1,000,000.00

CERTIFICATE:-
1) This work spot has been inspected and the work is found to be necessary
2) This Estimate is prepared as per C.S.R of 2018-19 PWD BC SR
3) This work is not split up.
4) The provision were made in ths estimate are necessary and adequate to execute the work as per site
5) This work come under B.B.M.P. limits

Assistant Engineer,SWD
R.R.Nagara Zone

Assistant Executive Engineer, SWD
R.R.Nagara Zone

Executive Engineer,SWD
R.R.Nagara Zone

Administrative sanction for Rs. 10.00 lakh
(Rs. Ten lakhs only
is accorded under head P3297
C.14th Finance 18-19)
Registered as EE 04/18-19 Subject to conditions contained in enclosed memo
No. 04 / Dt. 16.2.19.
AE / JE TA EE (SWD)

Technically sanctioned for Rs. 10.00 lakh
Rs. Ten lakhs only
is accorded under head P3297
C.14th Finance 18-19)
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04 / Dt. 16.2.19.
TA EE (SWD)

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